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[57] **ABSTRACT**

A time domain communications system wherein time modulated, impulse derived signals are multiplied by a template signal, integrated, and then demodulated. By this process, usable signals are obtained which would be otherwise obscured by noise.

23 Claims, 5 Drawing Sheets

[58] **Field of Search** 375/1, 23, 37, 96, 115;

370/10, 107; 329/313; 332/106; 307/265, 271;
380/35

